

Supplemental Digital Content 1

Supplemental Table 1. Characteristics of African-American and Caucasian subjects by *NFE2L2* -653A/G genotype.

	African-Americans		Caucasians		
	A/A	A/G + G/G	A/A	A/G	G/G
Number of subjects (n)	42	22 (20 + 2)	89	72	23
Age (year)	33.4 ± 1.7	32.0 ± 2.3	32.7 ± 1.1	30.3 ± 1.2	31.3 ± 2.2
Females (%)	25 (59.5%)	14 (63.6%)	40 (44.9%)	27 (37.5%)	13 (56.5%)
BMI (kg/m ²)	26.4 ± 0.6	25.6 ± 0.9	24.8 ± 0.4	24.4 ± 0.4	24.1 ± 0.7
Smoker (% yes)	3 (7.1%)	1 (4.5%)	9 (10.1%)	7 (9.7%)	3 (13.0%)
MAP (mm Hg)	89.2 ± 1.7	83.6 ± 2.4	83.9 ± 0.9	83.2 ± 1.0	82.5 ± 1.8
HR (b.p.m.)	66.1 ± 1.8	59.1 ± 2.5 *	63.9 ± 1.2	64.7 ± 1.3	67.1 ± 2.3
FBF (ml/100 ml tissue/min)	4.1 ± 1.1	2.7±1.1 *	4.0 ± 1.1	3.7 ± 1.1	3.3 ± 1.1
FVR (mm Hg/ml/100 ml tissue/min)	22.5 ± 1.1	31.1 ± 1.1 *	20.8 ± 1.1	22.2 ± 1.1	24.4 ± 1.1

Data are presented as mean ± SEM or count (proportion).

Subject characteristics were compared using an ANOVA or chi-square test where appropriate. *p<0.05 versus wild-type (A/A).

BMI, body mass index; MAP, mean arterial pressure; HR, heart rate; FBF, baseline forearm blood flow; FVR, baseline forearm vascular resistance.

Supplemental Table 2. Characteristics of African-American and Caucasian subjects by *NFE2L2* -651G/A genotype.

	African-Americans		Caucasians	
	G/G	G/A + A/A	G/G	G/A + A/A
Number of subjects (n)	57	7 (7 + 0)	148	35 (32 + 3)
Age (year)	33.4 ± 1.4	29.4 ± 4.1	31.6 ± 0.9	31.7 ± 1.8
Females (%)	36 (63.2%)	3 (42.9%)	68 (45.9%)	12 (34.3%)
BMI (kg/m ²)	26.2 ± 0.5	25.5 ± 1.5	24.4 ± 0.3	25.2 ± 0.6
Smoker (% yes)	4 (7.0%)	0 (0%)	14 (9.5%)	5 (14.3%)
MAP (mm Hg)	87.5 ± 1.5	85.4 ± 4.30	83.7 ± 0.7	82.6 ± 1.4
HR (b.p.m.)	63.4 ± 1.6	66.8 ± 4.8	64.9 ± 0.9	63.8 ± 1.9
FBF (ml/100 ml tissue/min)	3.5 ± 1.1	4.0 ± 1.2	3.7 ± 1.0	4.2 ± 1.1
FVR (mm Hg/ml/100 ml tissue/min)	25.7 ± 1.1	21.5 ± 1.2	22.2 ± 1.0	19.9 ± 1.1

Data are presented as mean ± SEM or count (proportion).

Subject characteristics were compared using an ANOVA or chi-square test where appropriate. *p<0.05 versus wild-type (G/G).

BMI, body mass index; MAP, mean arterial pressure; HR, heart rate; FBF, baseline forearm blood flow; FVR, baseline forearm vascular resistance.

Supplemental Table 3. Characteristics of African-American and Caucasian subjects by *NFE2L2* -617C/A genotype.

	African-Americans		Caucasians	
	C/C	C/A + A/A	C/C	C/A + A/A
Number of subjects (n)	62	2 (2 + 0)	144	40 (38 + 2)
Age (year)	33.2 ± 1.4	24.0 ± 7.7	31.7 ± 0.9	31.3 ± 1.7
Females (%)	38 (61.3%)	1 (50.0%)	62 (43.1%)	18 (45.0%)
BMI (kg/m ²)	26.2 ± 0.5	24.1 ± 2.9	24.5 ± 0.3	25.0 ± 0.5
Smoker (% yes)	4 (6.5%)	0 (0%)	17 (11.8%)	2 (5.0%)
MAP (mm Hg)	87.5 ± 1.4	80.5 ± 8.0	83.3 ± 0.7	84.2 ± 1.3
HR (b.p.m.)	63.7 ± 1.5	66.0 ± 8.4	64.5 ± 0.9	65.0 ± 1.8
FBF (ml/100 ml tissue/min)	3.5 ± 1.1	4.8 ± 1.4	3.9 ± 1.0	3.4 ± 1.1
FVR (mm Hg/ml/100 ml tissue/min)	25.4 ± 1.1	18.5 ± 1.4	21.0 ± 1.0	24.9 ± 1.1 *

Data are presented as mean ± SEM or count (proportion).

Caucasian subject characteristics were compared using an ANOVA or chi-square test where appropriate. *p<0.05 versus wild-type (C/C). Due to the small number of African-American -617A allele carriers, statistical comparisons were not completed.

BMI, body mass index; MAP, mean arterial pressure; HR, heart rate; FBF, baseline forearm blood flow; FVR, baseline forearm vascular resistance.